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Qualification

Year	Degree/Certificate	Name of the Institute/ University	Field of study
	PhD	University of São Paulo	Computational Mathematics

Publications in HEC Recognized journals

1	Amanullah, Yousaf, M., Zeb, S., Akram, M., Hussain, S. M., & Ro, J. S. Hermite wavelet method for approximate solution of higher order boundary value problems of ordinary differential equations. Fractals, 2340032 (2023).
2	Atta, M., Hussain, S. M., Hussain, F., Shah, H. H., Shah, H., & Ro, J. S. Fractals flow simulation for groundwater flow with varying apertures using analytic element method. Fractal and Fractional, 6(10), 573 (2022).
3	Hussain, S. M., Shah, H. H., & Ro, J. S. Comparison between Computational Cost of Fractals using Line-doublets. Journal of Mathematics and Computers in Simulation, 202, 374-387 (2022).
4	Habib, U., Zeb, S., Shah, K., & Hussain, S. M. KdV Equation Solution by Double Laplace Adomian Decomposition Method and Its Convergence Analysis. Mathematical Problems in Engineering, Article ID 1132557, (2022).

5	Shah, H., Khan, S., Lu, D., Ahmad, Z., Hussain, S. M., & Shah, H. H. Gravitational collapse of dissipative fluid in f (R, G) gravity. International Journal of Modern Physics A, Vol. 37, No. 23, 2250143 (2022).
6	Shah, H. H, Shah, H. & Hussain, S. M. Collapsing Solutions in 4D Einstein Gauss Bonnet Gravity. International Journal of Geometric Methods in Modern Physics, (2022).
7	Khan, R. U., Almakdi, S., Alshehri, M., Kumar, R., Ali, I., Hussain, S. M., ... & Uddin, M. I. Probabilistic Approach to COVID-19 Data Analysis and Forecasting Future Outbreaks Using a Multi-Layer Perceptron Neural Network. Diagnostics, 12(10), 2539 (2022).
8	Ali, I., Malghani, Y. A. K., Hussain, S. M., Khan, N., & Ro, J. S. Generalization of k-Uniformly Starlike and Convex Functions Using q-Difference Operator. Fractal and Fractional, 6(4), 216 (2022).
9	Ullah, N., Ali, I., Hussain, S. M., Ro, J. S., Khan, N., & Khan, B. Third Hankel Determinant for a Subclass of Univalent Functions Associated with Lemniscate of Bernoulli. Fractal and Fractional, 6(1), 48 (2022).
10	Yaseen, M., Ali, I., Hussain, S. M., Ro, J.-S. Subclasses of Uniform Univalent Functions Associated with Srivastava and Attiya Operator. Journal of Symmetry, 13, 1536, (2021).
11	Hussain, S. M., Rehman, A. U., Baleanu, D., Nisar, K. S., Ghaffar, A., & Abdul Karim, S. A. Generalized 5-point approximating subdivision scheme of varying arity. Journal of Mathematics, 8(4), 474 (2020).
12	Yousaf, M., Zahir, S., Riaz, M., Hussain, S. M., & Shah, K. Statistical Analysis of Forecasting COVID-19 for Upcoming Month in Pakistan. Journal of Chaos, Solitons & Fractals, 109926 (2020).
13	Ghaffar, A., Iqbal, M., Bari, M., Hussain, S. M., Manzoor, R., & Baleanu, D. Construction and Application of Nine-Tic B-Spline Tensor Product SS. Journal of Mathematics, (2019).
14	Qi, F., Rahman, G., Hussain, S. M., Du, W. S., & Nisar, K. S. Some inequalities of Chebyshev type for conformable k-fractional integral operators. Journal of Symmetry, 10(11), 614 (2018).

Paper Presented

S. No	Title of Paper	Name of Conference	National/ International	Date
1.				

Books Authored/ Edited

S. No	Name of book	Publisher	ISBN

Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1.	February 2018	Till date	BUITEMS	Assistant Professor

Area of specialization	Computational Mathematics
Research Interest	Fluid Mechanics (groundwater flow/hydraulics), numerical analysis and AI
Future Research Plans	
HEC Approved supervisor	
If Yes, provide HEC URL	
Research grants/ Projects	
Additional Information	